WHAT IS CLAIMED IS:

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- 1. An image input apparatus comprising:
 - a micro-lens array having a plurality of micro-lenses; and
- a light detecting element facing said micro-lens array;

wherein a single object image of an subject is obtained by rearranging image information of a plurality of object reduced images focused on a prescribed region on said light detecting element by said micro-lens array, and a relative position between said micro-lens and said prescribed region on said light detecting element, on which said object reduced images are focused as responding to each one of said micro-lenses, is arrayed differently for each of said micro-lens.

- 2. An image input apparatus according to claim 1, wherein said relative position shifts sequentially at specified quantity in vertical and horizontal directions in an array of said micro-lenses.
- 3. An image input apparatus according to claim 2, wherein said specified quantity is s/N.
- :(s) is a pitch of said light detecting element, and (N) is a number of said micro-lens units.
 - 4. An image input apparatus according to claim 1, wherein said relative position is formed adjustable according to a first rule based on a distance between said micro-lens and said subject.

- 5. An image input apparatus according to claim 4, wherein said first rule is that said relative position shifts sequentially by (s/N-D/m) in vertical and horizontal directions in said micro-lens array.
- :(s) indicates a pitch of said light detecting element, (N) indicates a number of units of said micro-lens, (D) indicates a pitch of said micro-lens, and (m) indicates a magnification of said micro-lens for said subject. Also, (m) indicates a ratio (b/a=m) of distance (b) between said micro-lens and said subject to a distance a between said micro-lens and said light detecting element.

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- 6. An image input apparatus according to any of claim 1 to claim 5, wherein, in process of obtaining a single object image by rearranging said image information of a plurality of object reduced images focused on said prescribed region on said light detecting element per said micro-lens, rearranged positions on said object image, to where said image information of said object reduced images are rearranged, are determined on the basis of said relative position.
- 7. An image input apparatus according to any of claim 1 to claim 3, wherein, in process of obtaining a single object image by rearranging said image information of a plurality of object reduced images focused on said prescribed region on said light detecting element per said micro-lens, said rearranged positions on said object image, to where said image information of said object reduced images are rearranged, are determined according to a second rule on the basis of a distance between said micro-lens and said subject.

- 8. An image input apparatus according to claim 7, wherein said second rule is that said relative position shifts sequentially by (s/N-D/m) in vertical and horizontal directions in said micro-lens array.
- 5 :(s) indicates a pitch of said light detecting element, (N) indicates a number of units of said micro-lens, (D) indicates a pitch of said micro-lens, and (m) indicates a magnification of said micro-lens for said subject. Also, (m) indicates a ratio (b/a=m) of distance (b) between said micro-lens and said subject to a distance a between said micro-lens and said light detecting element.

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9. An image input apparatus according to any of claim 1 to claim 8, wherein said light detecting element contains a plurality of light detecting cells, and said light detecting cells are divided into a plurality of regions to which color filters are disposed respectively.